



SITE: TVA Kingston  
BREAK: 2.2  
OTHER: \_\_\_\_\_

**STATE OF TENNESSEE  
DEPARTMENT OF HEALTH  
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL  
Lab Services - Jackson Regional Lab  
Jackson, TN 38301  
731-426-0686

TDH: Lab Services KRL  
Lab Services - Knoxville Regional Lab  
Knoxville, TN 37920  
865-549-5201

TDH: Lab Services NCL  
Lab Services - Nashville Central Lab  
Nashville, TN 37243  
615-262-6300

**Sent To:** Greg Denton  
TDEC-WPC  
6th Floor, L & C Tower Annex  
401 Church Street  
Nashville, TN 37243-1534

Michael Atchley  
TDEC-WPC  
Knoxville FO  
3711 Middlebrook Pike  
Knoxville, TN 37921

**Lab ID:** K00002307  
Knoxville Regional Laboratory

**Sampling Agency:** TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

This is to certify that the following results were determined using  
good laboratory practices and in accordance with federal or state  
approved methodologies.

  
Analytical Supervisor



**Lab-Sample Number:** K00002307001  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 12.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 1  
**Station No.:** EMORY012.1RO  
**Date/Time Collected:** 04/22/2009 10:15  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.71 pH Units  
**Chlorine, residual:**  
**Conductivity:** 48 uMHO  
**Temperature:** 13.26  
**Dissolved Oxygen:** 10.27 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	11	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	11	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002307002  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO  
**Date/Time Collected:** 04/22/2009 11:21  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.47 pH Units  
**Chlorine, residual:**  
**Conductivity:** 46 uMHO  
**Temperature:** 13.16  
**Dissolved Oxygen:** 9.88 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	15	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	39	mg/L	10	10	A Peeples	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

<b>Lab-Sample Number:</b>	K00002307003	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.33      pH Units
<b>Sample Description:</b>	Approx 100' downstream from middle dredge pc	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	47      uMHO
<b>Project Site No.:</b>	2A	<b>Temperature:</b>	13.03
<b>Station No.:</b>	Dredge Plume	<b>Dissolved Oxygen:</b>	10.14      mg/L
<b>Date/Time Collected:</b>	04/22/2009 11:31	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009 14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	14	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	15	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	61	mg/L	10	10	A Peebles	4/24/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

**Lab-Sample Number:** K00002307004  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.9 at underwater weir  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2B  
**Station No.:** EMORY001.9RO  
**Date/Time Collected:** 04/22/2009 11:43  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.18 pH Units  
**Chlorine, residual:**  
**Conductivity:** 47 uMHO  
**Temperature:** 13.07  
**Dissolved Oxygen:** 10.16 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	14	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	15	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peoples	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002307005  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.7  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 3  
**Station No.:** EMORY001.7RO  
**Date/Time Collected:** 04/22/2009 11:53  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.23 pH Units  
**Chlorine, residual:**  
**Conductivity:** 47 uMHO  
**Temperature:** 12.80  
**Dissolved Oxygen:** 10.10 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	15	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**



**Lab-Sample Number:** K00002307006  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 0.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 4  
**Station No.:** EMORY000.1RO  
**Date/Time Collected:** 04/22/2009 12:05  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.25 pH Units  
**Chlorine, residual:**  
**Conductivity:** 60 uMHO  
**Temperature:** 13.80  
**Dissolved Oxygen:** 10.05 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	A Peebles	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002307007  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5FB  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Total Alkalinity	U	mg/L	3.8	10	M Chen	4/28/2009	

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Calcium hardness	U	mg/L	0.7	1	M Chen	4/27/2009	

TEST: Residue, Suspended		METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/24/2009	

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**



**Lab-Sample Number:** K00002307008  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5FD  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.46 pH Units  
**Chlorine, residual:**  
**Conductivity:** 100 uMHO  
**Temperature:** 14.52  
**Dissolved Oxygen:** 9.89 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	47	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	42	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	A Peebles	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002307009  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.46 pH Units  
**Chlorine, residual:**  
**Conductivity:** 100 uMHO  
**Temperature:** 14.52  
**Dissolved Oxygen:** 9.89 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	47	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	40	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	14	mg/L	10	10	A Peebles	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

**Lab-Sample Number:** K00002307010  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River TVA Discharge Point  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5A  
**Station No.:** TN0005452 Outfall 002  
**Date/Time Collected:** 04/22/2009 12:34  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.20 pH Units  
**Chlorine, residual:**  
**Conductivity:** 53 uMHO  
**Temperature:** 14.81  
**Dissolved Oxygen:** 9.91 mg/L  
**Other:**  
**Flow:** CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	18	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	15	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	20	mg/L	10	10	A Peoples	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**

<b>Lab-Sample Number:</b>	K00002307011	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	8.05      pH Units
<b>Sample Description:</b>	Clinch River mile 4.5 near Sugar Grove Valley F	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	225      uMHO
<b>Project Site No.:</b>	6	<b>Temperature:</b>	15.05
<b>Station No.:</b>	CLINC004.5RO	<b>Dissolved Oxygen:</b>	10.31      mg/L
<b>Date/Time Collected:</b>	04/22/2009    12:46	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009    14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	100	mg/L	3.8	10	M Chen	4/28/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	87	mg/L	0.7	1	M Chen	4/27/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/23/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/24/2009

**J - Estimated value between MDL and MQL**  
**MDL - Method Detection Limit**  
**MQL - Method Quantitation Limit**  
**U - Undetected**



**STATE OF TENNESSEE  
DEPARTMENT OF HEALTH  
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL  
Lab Services - Jackson Regional Lab  
Jackson, TN 38301  
731-426-0686

TDH: Lab Services KRL  
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Knoxville, TN 37920  
865-549-5201

TDH: Lab Services NCL  
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Nashville, TN 37243  
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Nashville, TN 37243-1534

Michael Atchley  
TDEC-WPC  
Knoxville FO  
3711 Middlebrook Pike  
Knoxville, TN 37921

**Lab ID:** K00002307  
Knoxville Regional Laboratory

**Sampling Agency:** TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

This is to certify that the following results were determined using  
good laboratory practices and in accordance with federal or state  
approved methodologies.

  
Analytical Supervisor

**Lab-Sample Number:** K00002307001  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 12.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 1  
**Station No.:** EMORY012.1RO  
**Date/Time Collected:** 04/22/2009 10:15  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Involved:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.71 pH Units  
**Chlorine, residual:**  
**Conductivity:** 48 uMHO  
**Temperature:** 13.26  
**Dissolved Oxygen:** 10.27 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	240	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	154	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	24	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.35J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	1.6	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.28J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	28	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.2	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.87J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	3.4J	µg/L	1.9	5	M Pattanayek	4/25/2009

Lab-Sample Number: K00002307001  
Project Name: TVA-Ash Spill  
Sample Description: Emory River mile 12.1  
Sampler Project Name: TVA Ash Spill  
Project Site No.: 1  
Station No.: EMORY012.1RO  
Date/Time Collected: 04/22/2009 10:15  
Sampler's Name: Geoff Klein  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-WPC  
Billing Code: 327.34-20  
Send Report To: TDEC-WPC  
Agency Invoiced: TDEC-WPC  
Priority Date:  
Date/Time Received: 04/22/2009 14:47  
Received By: Ken Hitchman

Field Determinations  
pH: 7.71 pH Units  
Chlorine, residual:  
Conductivity: 48 uMHO  
Temperature: 13.26  
Dissolved Oxygen: 10.27 mg/L  
Other:  
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.068J	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected



**Lab-Sample Number:** K00002307002  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO  
**Date/Time Collected:** 04/22/2009 11:21  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.47 pH Units  
**Chlorine, residual:**  
**Conductivity:** 46 uMHO  
**Temperature:** 13.16  
**Dissolved Oxygen:** 9.88 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	680	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	970	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	4.6J	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	42	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	0.19J	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.7J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.77J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	2.6	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	1.4	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	35	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	2.1	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	0.07J	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.59J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	6.5	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	5.3	µg/L	1.9	5	M Pattanayek	4/25/2009

**Lab-Sample Number:** K00002307002  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 2.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2  
**Station No.:** EMORY002.1RO  
**Date/Time Collected:** 04/22/2009 11:21  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.47 pH Units  
**Chlorine, residual:**  
**Conductivity:** 46 uMHO  
**Temperature:** 13.16  
**Dissolved Oxygen:** 9.88 mg/L  
**Other:**  
**Flow:** CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

<b>Lab-Sample Number:</b>	K00002307003	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.33 pH Units
<b>Sample Description:</b>	Approx 100' downstream from middle dredge pc	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	47 uMHO
<b>Project Site No.:</b>	2A	<b>Temperature:</b>	13.03
<b>Station No.:</b>	Dredge Plume	<b>Dissolved Oxygen:</b>	10.14 mg/L
<b>Date/Time Collected:</b>	04/22/2009 11:31	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009 14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	620	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	740	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	3.5J	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	46	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	0.15J	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.5J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.65J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	4.2	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	1.2	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	36	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.9	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.27J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	5.6	µg/L	1.9	5	M Pattanayek	4/25/2009

<b>Lab-Sample Number:</b>	K00002307003	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	7.33      pH Units
<b>Sample Description:</b>	Approx 100' downstream from middle dredge pc	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	47      uMHO
<b>Project Site No.:</b>	2A	<b>Temperature:</b>	13.03
<b>Station No.:</b>	Dredge Plume	<b>Dissolved Oxygen:</b>	10.14      mg/L
<b>Date/Time Collected:</b>	04/22/2009    11:31	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Involved:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009    14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

**Lab-Sample Number:** K00002307004  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.9 at underwater weir  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2B  
**Station No.:** EMORY001.9RO  
**Date/Time Collected:** 04/22/2009 11:43  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Involved:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.18 pH Units  
**Chlorine, residual:**  
**Conductivity:** 47 uMHO  
**Temperature:** 13.07  
**Dissolved Oxygen:** 10.16 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	320	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	320	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	28	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.0J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.29J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	1.9	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.38J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	33	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.3	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.14J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	4.1J	µg/L	1.9	5	M Pattanayek	4/25/2009

**Lab-Sample Number:** K00002307004  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.9 at underwater weir  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 2B  
**Station No.:** EMORY001.9RO  
**Date/Time Collected:** 04/22/2009 11:43  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.18 pH Units  
**Chlorine, residual:**  
**Conductivity:** 47 uMHO  
**Temperature:** 13.07  
**Dissolved Oxygen:** 10.16 mg/L  
**Other:**  
**Flow:** CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected

**Lab-Sample Number:** K00002307005  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 1.7  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 3  
**Station No.:** EMORY001.7RO  
**Date/Time Collected:** 04/22/2009 11:53  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.23 pH Units  
**Chlorine, residual:**  
**Conductivity:** 47 uMHO  
**Temperature:** 12.80  
**Dissolved Oxygen:** 10.10 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	470	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	310	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	28	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.2J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.36J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	1.0	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.43J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	33	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.3	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.11J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	3.1J	µg/L	1.9	5	M Pattanayek	4/25/2009



Lab-Sample Number: K00002307005  
Project Name: TVA-Ash Spill  
Sample Description: Emory River mile 1.7  
Sampler Project Name: TVA Ash Spill  
Project Site No.: 3  
Station No.: EMORY001.7RO  
Date/Time Collected: 04/22/2009 11:53  
Sampler's Name: Geoff Klein  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-WPC  
Billing Code: 327.34-20  
Send Report To: TDEC-WPC  
Agency Invoiced: TDEC-WPC  
Priority Date:  
Date/Time Received: 04/22/2009 14:47  
Received By: Ken Hitchman

Field Determinations  
pH: 7.23 pH Units  
Chlorine, residual:  
Conductivity: 47 uMHO  
Temperature: 12.80  
Dissolved Oxygen: 10.10 mg/L  
Other:  
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected

**Lab-Sample Number:** K00002307006  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 0.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 4  
**Station No.:** EMORY000.1RO  
**Date/Time Collected:** 04/22/2009 12:05  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.25 pH Units  
**Chlorine, residual:**  
**Conductivity:** 60 uMHO  
**Temperature:** 13.80  
**Dissolved Oxygen:** 10.05 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	490	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	380	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	28	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.4J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.38J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	2.3	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.52J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	36	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.4	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	1.3J	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.09J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	4.4J	µg/L	1.9	5	M Pattanayek	4/25/2009

**Lab-Sample Number:** K00002307006  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Emory River mile 0.1  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 4  
**Station No.:** EMORY000.1RO  
**Date/Time Collected:** 04/22/2009 12:05  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Involved:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.25 pH Units  
**Chlorine, residual:**  
**Conductivity:** 60 uMHO  
**Temperature:** 13.80  
**Dissolved Oxygen:** 10.05 mg/L  
**Other:**  
**Flow:** CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

**Lab-Sample Number:** K00002307007  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5FB  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

# Field Determinations

**pH:**  
**Chlorine, residual:**  
**Conductivity:**  
**Temperature:**  
**Dissolved Oxygen:**  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	U	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	U	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.4J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	U	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	U	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	U	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	U	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	U	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.06J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	U	µg/L	1.9	5	M Pattanayek	4/25/2009

Lab-Sample Number: K00002307007  
Project Name: TVA-Ash Spill  
Sample Description: Clinch River mile 2.3 near Hwy 70 bridge  
Sampler Project Name: TVA Ash Spill  
Project Site No.: 5FB  
Station No.: CLINC002.3RO  
Date/Time Collected: 04/22/2009 12:20  
Sampler's Name: Geoff Klein  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-WPC  
Billing Code: 327.34-20  
Send Report To: TDEC-WPC  
Agency Invoiced: TDEC-WPC  
Priority Date:  
Date/Time Received: 04/22/2009 14:47  
Received By: Ken Hitchman

**Field Determinations**

pH:  
Chlorine, residual:  
Conductivity:  
Temperature:  
Dissolved Oxygen:  
Other:  
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MLQ	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

**Lab-Sample Number:** K00002307008  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5FD  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Involved:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.46 pH Units  
**Chlorine, residual:**  
**Conductivity:** 100 uMHO  
**Temperature:** 14.52  
**Dissolved Oxygen:** 9.89 mg/L  
**Other:**  
**Flow:** CFS

**TEST: Digestion Metals**
**METHOD: EPA 200.2**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

**TEST: ICP**
**METHOD: EPA 200.7**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	350	µg/L	2.9	10	A Bass	4/27/2009

**TEST: ICP-MS**
**METHOD: EPA 200.8**

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	280	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	31	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.1J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.35J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	1.9	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.43J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	40	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.6	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.07J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	10	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	2.8J	µg/L	1.9	5	M Pattanayek	4/25/2009

Lab-Sample Number: K00002307008  
Project Name: TVA-Ash Spill  
Sample Description: Clinch River mile 2.3 near hwy 70 bridge  
Sampler Project Name: TVA Ash Spill  
Project Site No.: 5FD  
Station No.: CLINC002.3RO  
Date/Time Collected: 04/22/2009 12:20  
Sampler's Name: Geoff Klein  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-WPC  
Billing Code: 327.34-20  
Send Report To: TDEC-WPC  
Agency Invoiced: TDEC-WPC  
Priority Date:  
Date/Time Received: 04/22/2009 14:47  
Received By: Ken Hitchman

Field Determinations  
pH: 7.46 pH Units  
Chlorine, residual:  
Conductivity: 100 uMHO  
Temperature: 14.52  
Dissolved Oxygen: 9.89 mg/L  
Other:  
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected



**Lab-Sample Number:** K00002307009  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.46 pH Units  
**Chlorine, residual:**  
**Conductivity:** 100 uMHO  
**Temperature:** 14.52  
**Dissolved Oxygen:** 9.89 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	380	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	310	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	32	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.1J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.37J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	3.1	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.54J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	41	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.9	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.07J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	U	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	3.9J	µg/L	1.9	5	M Pattanayek	4/25/2009

**Lab-Sample Number:** K00002307009  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River mile 2.3 near Hwy 70 bridge  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5  
**Station No.:** CLINC002.3RO  
**Date/Time Collected:** 04/22/2009 12:20  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.46 pH Units  
**Chlorine, residual:**  
**Conductivity:** 100 uMHO  
**Temperature:** 14.52  
**Dissolved Oxygen:** 9.89 mg/L  
**Other:**  
**Flow:** CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected

**Lab-Sample Number:** K00002307010  
**Project Name:** TVA-Ash Spill  
**Sample Description:** Clinch River TVA Discharge Point  
**Sampler Project Name:** TVA Ash Spill  
**Project Site No.:** 5A  
**Station No.:** TN0005452 Outfall 002  
**Date/Time Collected:** 04/22/2009 12:34  
**Sampler's Name:** Geoff Klein  
**County:** ROANE - 73  
**Sample Matrix:** Water  
**EFO:** Knoxville  
**Sampling Agency:** TDEC-WPC  
**Billing Code:** 327.34-20  
**Send Report To:** TDEC-WPC  
**Agency Invoiced:** TDEC-WPC  
**Priority Date:**  
**Date/Time Received:** 04/22/2009 14:47  
**Received By:** Ken Hitchman

**Field Determinations**  
**pH:** 7.20 pH Units  
**Chlorine, residual:**  
**Conductivity:** 53 uMHO  
**Temperature:** 14.81  
**Dissolved Oxygen:** 9.91 mg/L  
**Other:**  
**Flow:** CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	520	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	540	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	2.7J	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	41	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	2.6J	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.53J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	4.4	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.91J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	36	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.7	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.11J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	6.5	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	4.9J	µg/L	1.9	5	M Pattanayek	4/25/2009

Lab-Sample Number: K00002307010  
Project Name: TVA-Ash Spill  
Sample Description: Clinch River TVA Discharge Point  
Sampler Project Name: TVA Ash Spill  
Project Site No.: 5A  
Station No.: TN0005452 Outfall 002  
Date/Time Collected: 04/22/2009 12:34  
Sampler's Name: Geoff Klein  
County: ROANE - 73  
Sample Matrix: Water  
EFO: Knoxville  
Sampling Agency: TDEC-WPC  
Billing Code: 327.34-20  
Send Report To: TDEC-WPC  
Agency Invoiced: TDEC-WPC  
Priority Date:  
Date/Time Received: 04/22/2009 14:47  
Received By: Ken Hitchman

Field Determinations  
pH: 7.20 pH Units  
Chlorine, residual:  
Conductivity: 53 uMHO  
Temperature: 14.81  
Dissolved Oxygen: 9.91 mg/L  
Other:  
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
MDL - Method Detection Limit  
MQL - Method Quantitation Limit  
U - Undetected

<b>Lab-Sample Number:</b>	K00002307011	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	8.05      pH Units
<b>Sample Description:</b>	Clinch River mile 4.5 near Sugar Grove Valley R	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	225      uMHO
<b>Project Site No.:</b>	6	<b>Temperature:</b>	15.05
<b>Station No.:</b>	CLINC004.5RO	<b>Dissolved Oxygen:</b>	10.31      mg/L
<b>Date/Time Collected:</b>	04/22/2009    12:46	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009    14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/23/2009				A Wilson	4/23/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	A Bass	4/27/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	160	µg/L	6.4	10	M Pattanayek	4/25/2009
Antimony	U	µg/L	0.33	1	M Pattanayek	4/25/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/26/2009
Barium	34	µg/L	2.5	5	M Pattanayek	4/25/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/25/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/25/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/25/2009
Cobalt	0.27J	µg/L	0.04	1	M Pattanayek	4/25/2009
Copper	2.3	µg/L	0.38	1	M Pattanayek	4/25/2009
Lead	0.44J	µg/L	0.10	1	M Pattanayek	4/25/2009
Manganese	42	µg/L	0.42	1	M Pattanayek	4/25/2009
Nickel	1.9	µg/L	0.25	1	M Pattanayek	4/25/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/26/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/25/2009
Thallium	0.05J	µg/L	0.03	1	M Pattanayek	4/25/2009
Vanadium	5.7	µg/L	3.4	5	M Pattanayek	4/26/2009
Zinc	3.1J	µg/L	1.9	5	M Pattanayek	4/25/2009

<b>Lab-Sample Number:</b>	K00002307011	<b>Field Determinations</b>	
<b>Project Name:</b>	TVA-Ash Spill	<b>pH:</b>	8.05      pH Units
<b>Sample Description:</b>	Clinch River mile 4.5 near Sugar Grove Valley R	<b>Chlorine, residual:</b>	
<b>Sampler Project Name:</b>	TVA Ash Spill	<b>Conductivity:</b>	225      uMHO
<b>Project Site No.:</b>	6	<b>Temperature:</b>	15.05
<b>Station No.:</b>	CLINC004.5RO	<b>Dissolved Oxygen:</b>	10.31      mg/L
<b>Date/Time Collected:</b>	04/22/2009    12:46	<b>Other:</b>	
<b>Sampler's Name:</b>	Geoff Klein	<b>Flow:</b>	CFS
<b>County:</b>	ROANE - 73		
<b>Sample Matrix:</b>	Water		
<b>EFO:</b>	Knoxville		
<b>Sampling Agency:</b>	TDEC-WPC		
<b>Billing Code:</b>	327.34-20		
<b>Send Report To:</b>	TDEC-WPC		
<b>Agency Invoiced:</b>	TDEC-WPC		
<b>Priority Date:</b>			
<b>Date/Time Received:</b>	04/22/2009    14:47		
<b>Received By:</b>	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Wilson	4/28/2009

J - Estimated value between MDL and MQL  
 MDL - Method Detection Limit  
 MQL - Method Quantitation Limit  
 U - Undetected